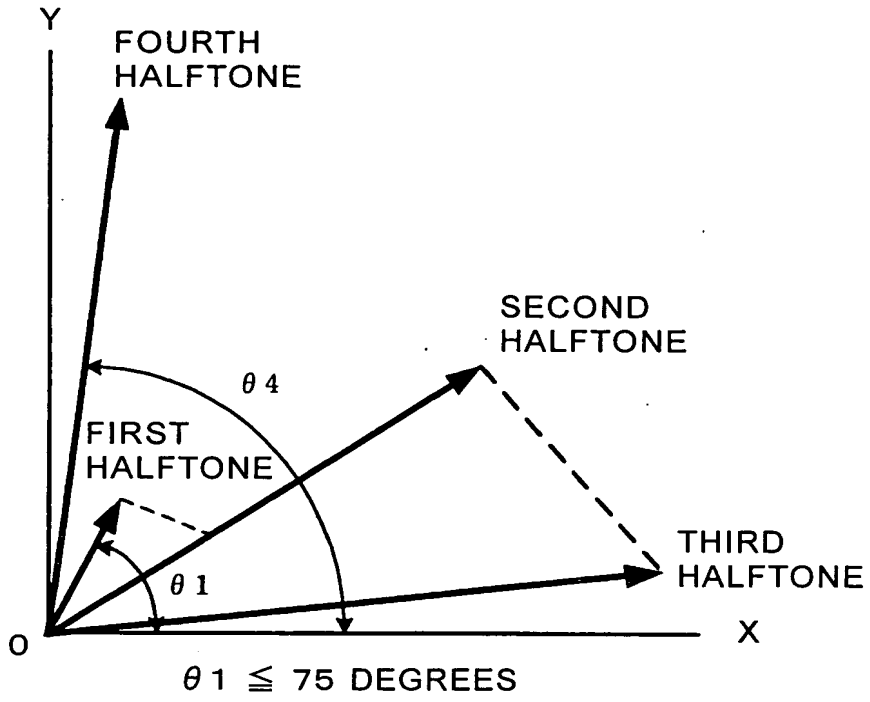
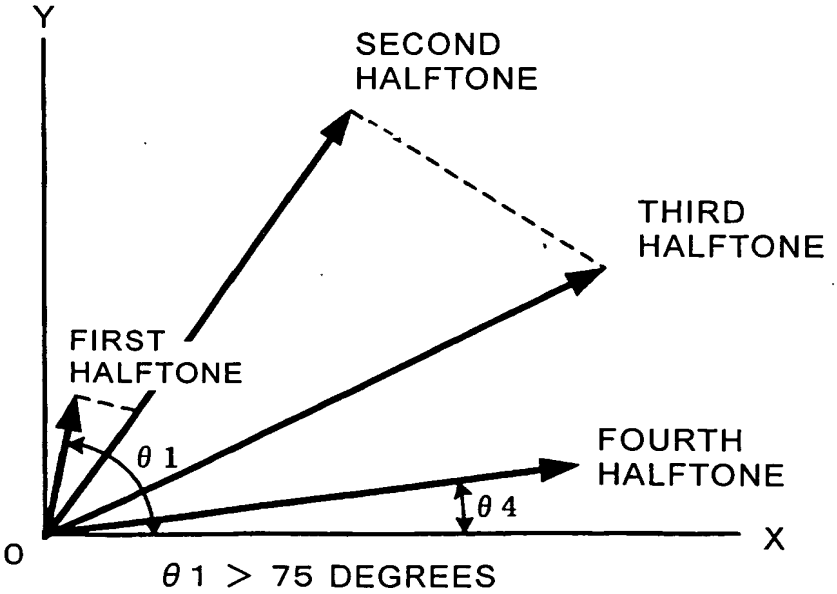
TITLE: APPARATUS FOR AND METHOD OF FORMING MULTICOLOR HALFTONE IMAGES
INVENTORS: Yasuhiko KISHIMOTO
DOCKET NO.: 1391.1073

FIG. 1



θ 1 ≦ 75 DEGREES

FIG. 2



θ 1 > 75 DEGREES

FIG. 3

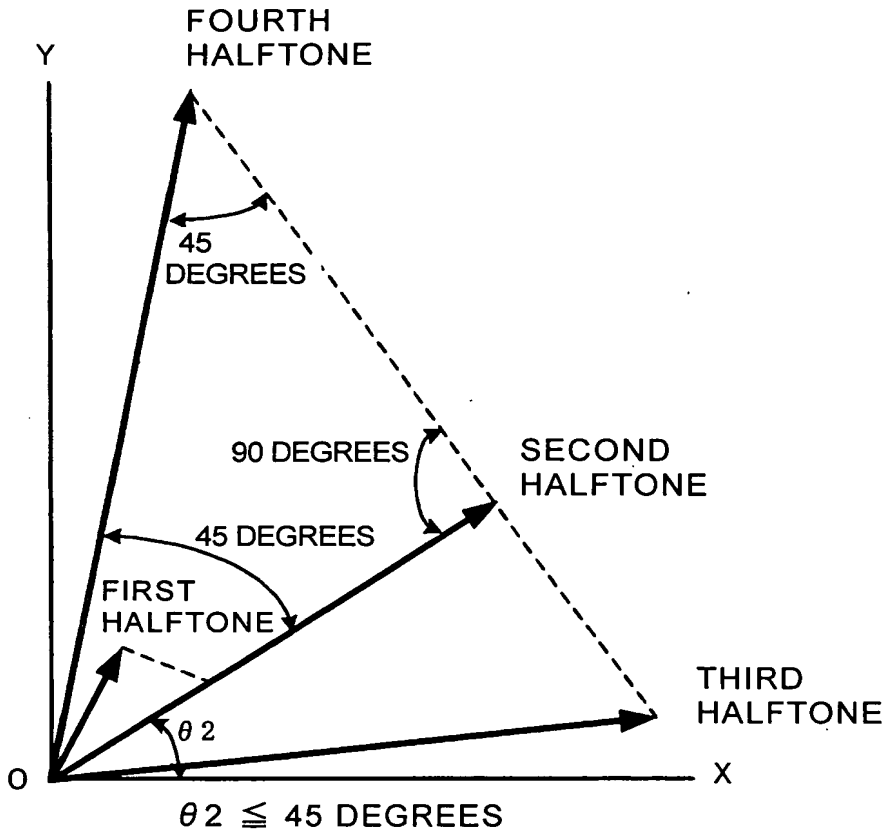

FOURTH HALFTONE
Y
45 DEGREES
90 DEGREES
SECOND HALFTONE
45 DEGREES
FIRST HALFTONE
THIRD HALFTONE
θ2
O
X
θ2 ≦ 45 DEGREES

FIG. 4

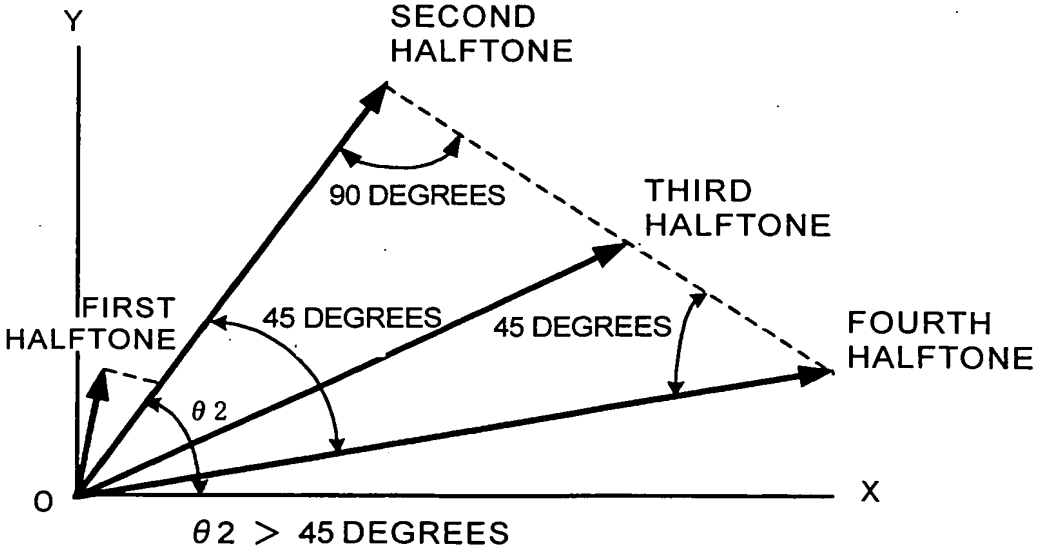

Y
SECOND HALFTONE
90 DEGREES
THIRD HALFTONE
FIRST HALFTONE
45 DEGREES
45 DEGREES
FOURTH HALFTONE
θ2
O
X
θ2 > 45 DEGREES

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FIG. 5

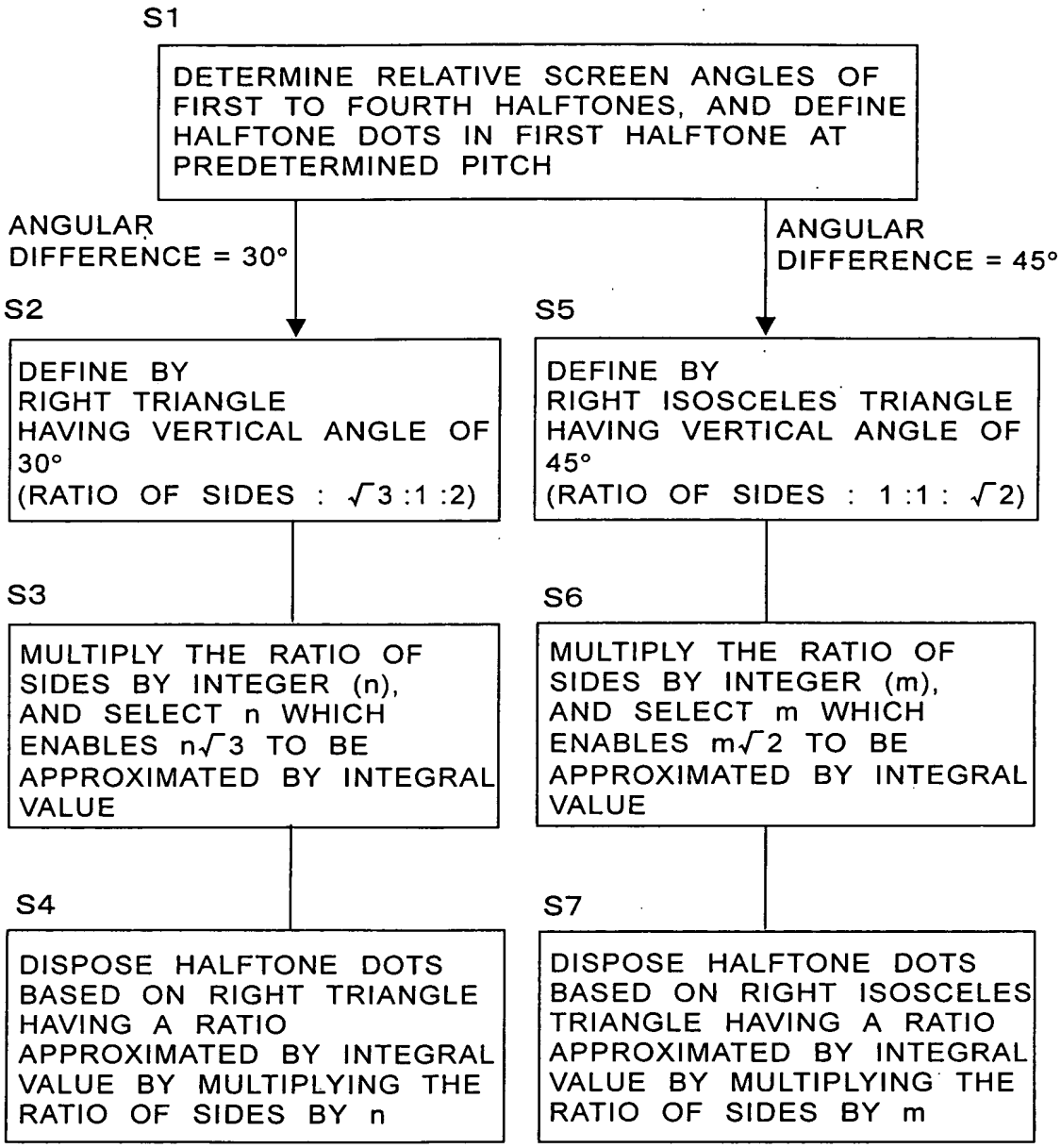

FIG. 6

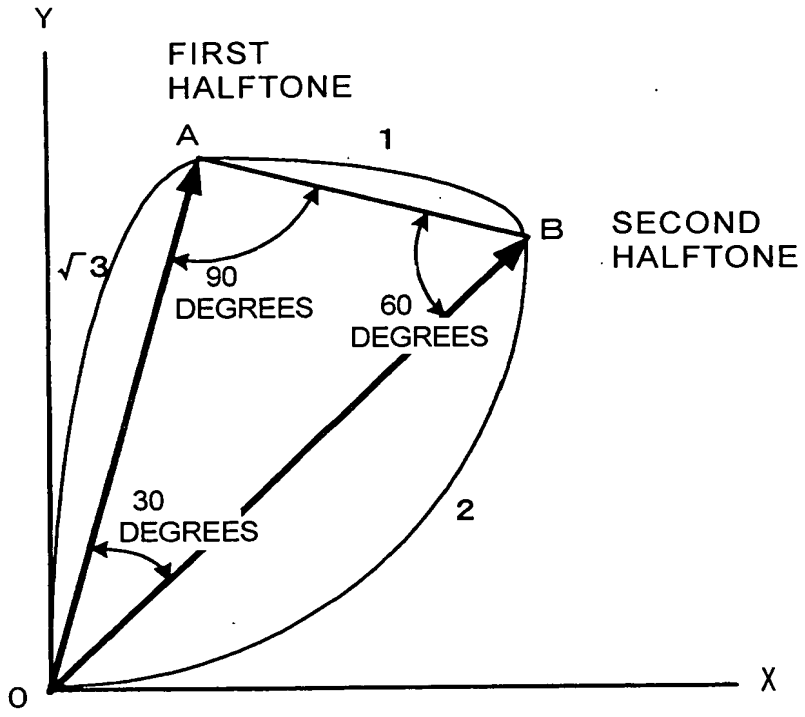
Y
FIRST
HALFTONE
A
1
B
SECOND
HALFTONE
√3
90
DEGREES
60
DEGREES
30
DEGREES
2
O
X

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FIG. 7

n	$n \times \sqrt{3}$
1	1.732051
2	3.464102
3	5.196152
4	6.928203 (≒7 ERROR 0.07)
5	8.660254
6	10.3923
7	12.12436
8	13.85641
9	15.58846
10	17.32051
11	19.05256 (≒19 ERROR 0.05)
12	20.78461
13	22.51666
14	24.24871
15	25.98076 (≒26 ERROR 0.02)
16	27.71281
17	29.44486
18	31.17691
19	32.90897
20	34.64102

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FIG. 8

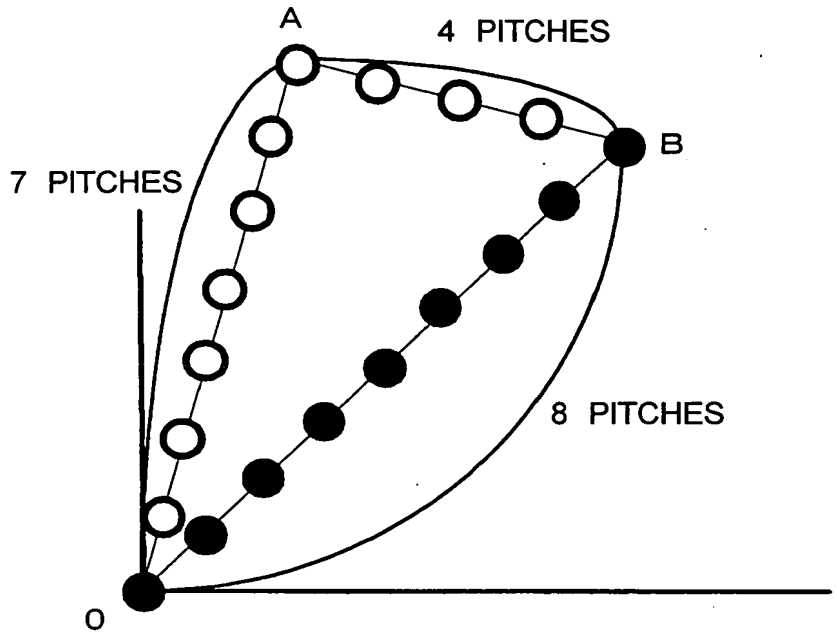
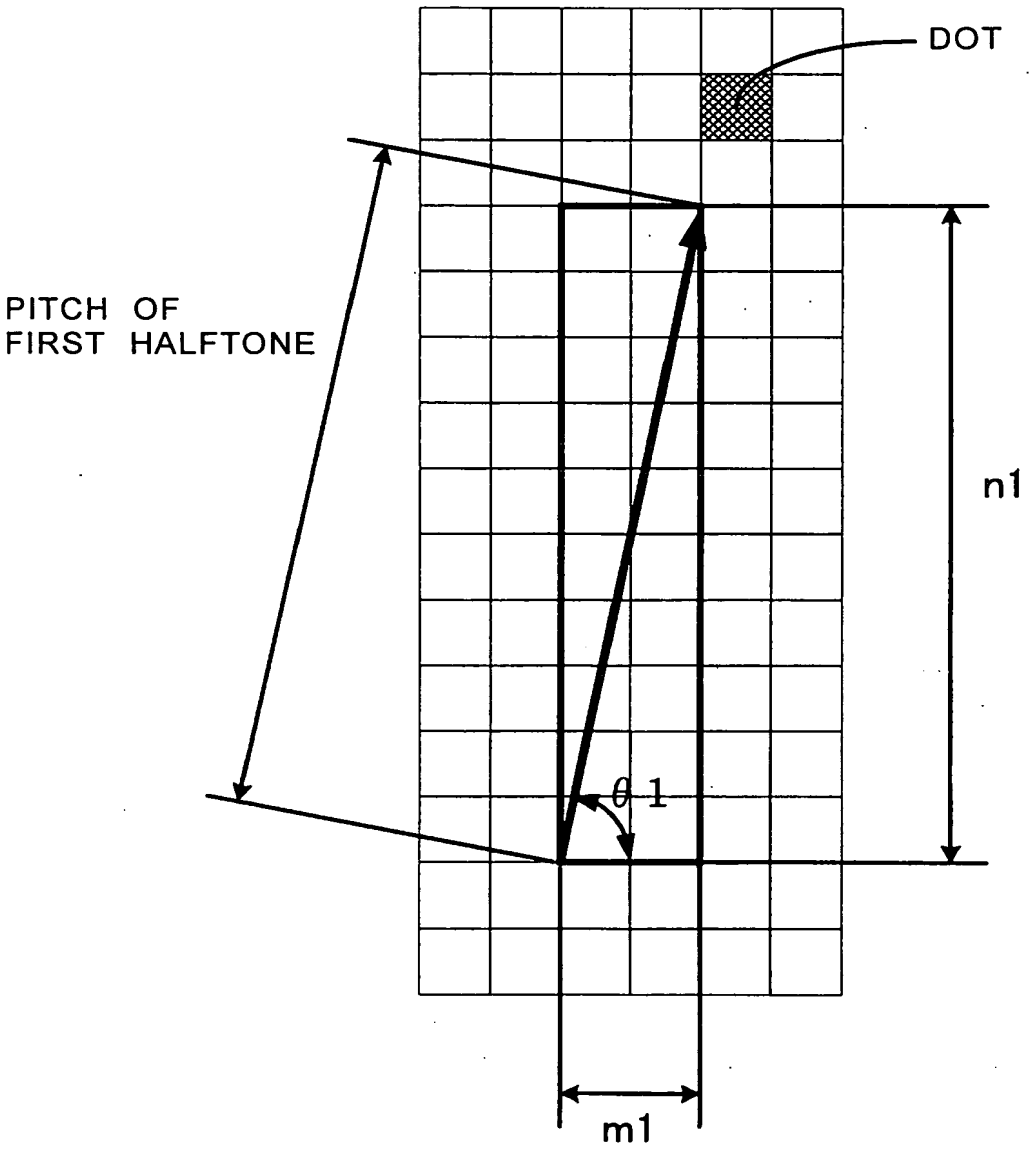


FIG. 9



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INVENTORS: Yasuhiko KISHIMOTO
DOCKET NO.: 1391.1073

FIG. 10

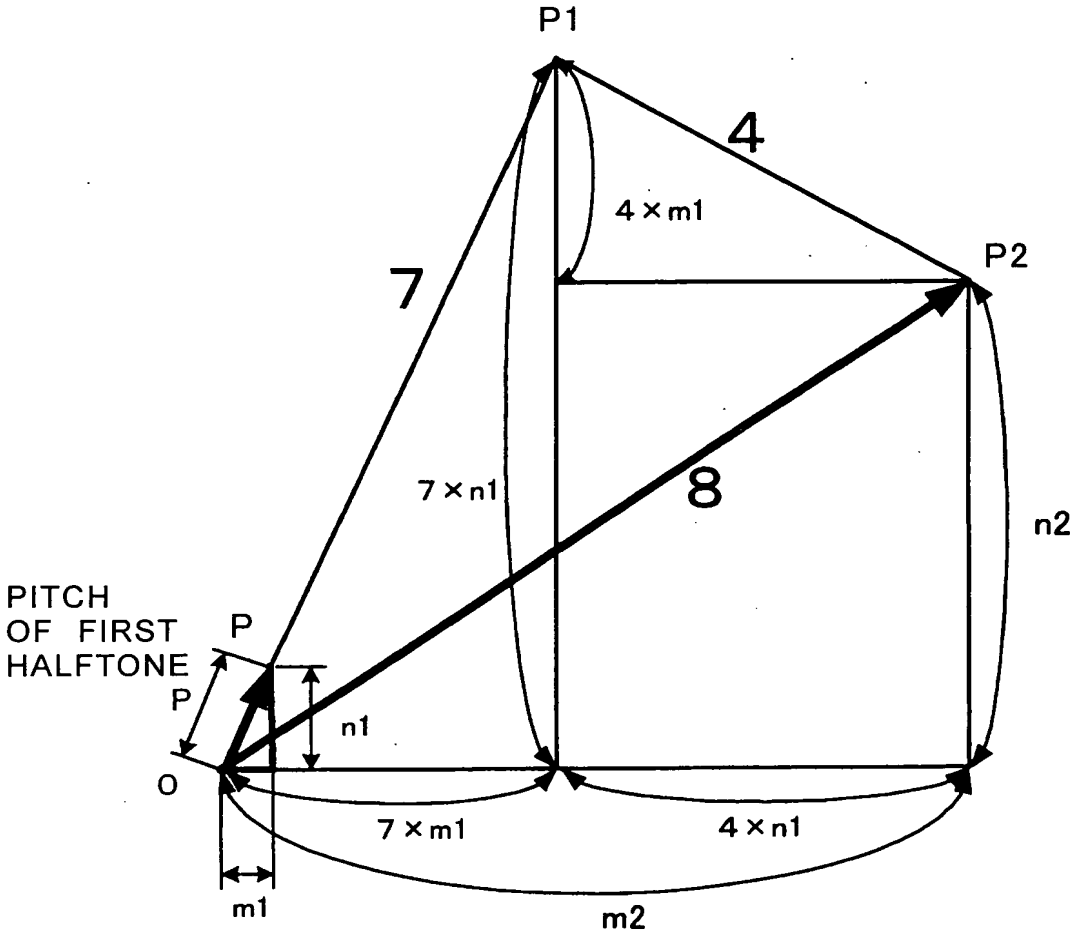

FIG. 11

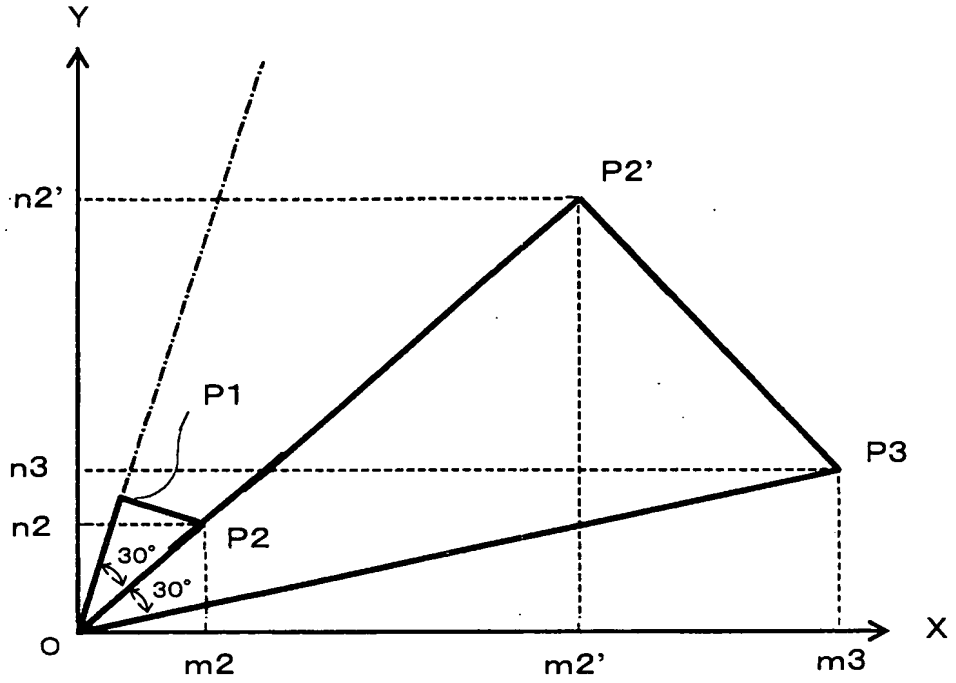

FIG.12

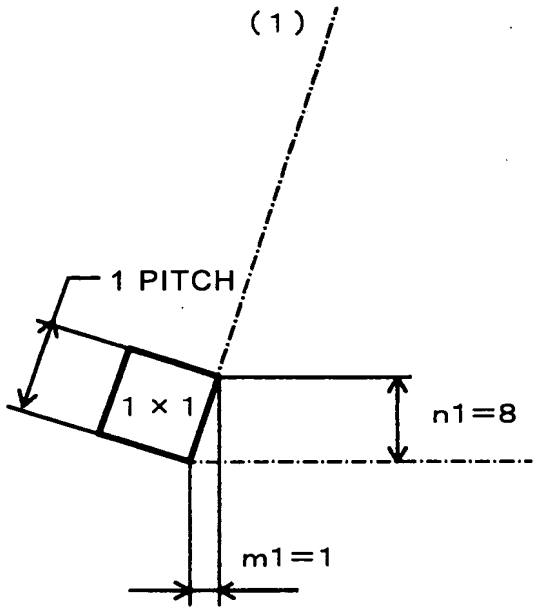

FIG.13

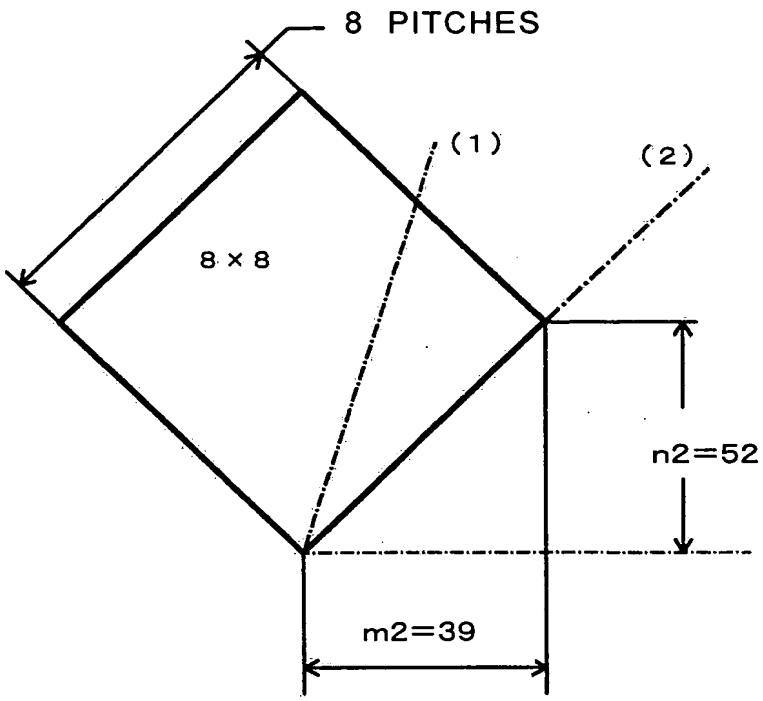

FIG. 14

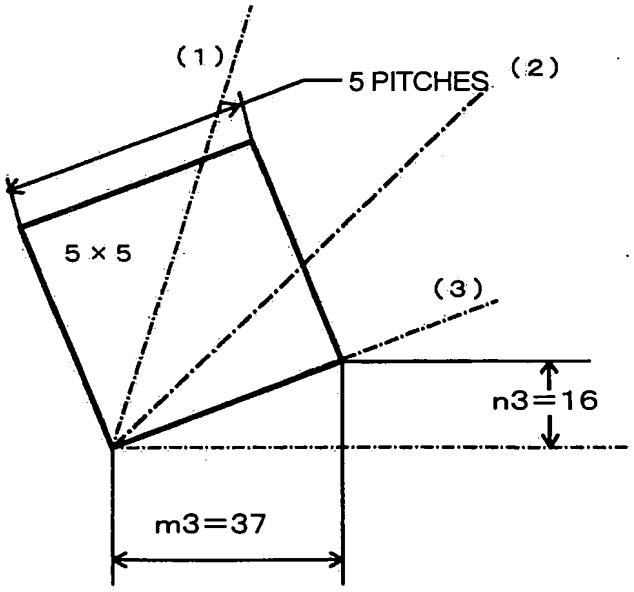

FIG. 15

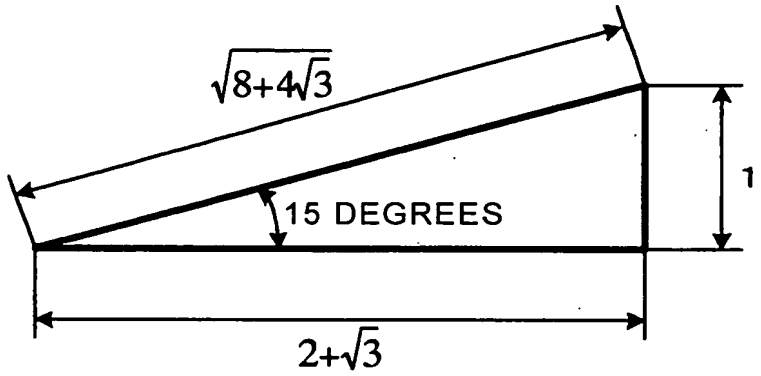

FIG. 16

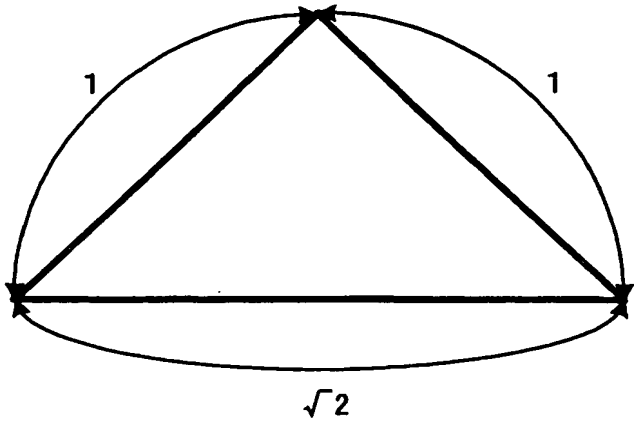

FIG. 17

m	$m \times \sqrt{2}$
1	1.414214
2	2.828427
3	4.242641
4	5.656854
5	7.071068 (≒7 ERROR 0.071)
6	8.485281
7	9.899495 (≒10 ERROR 0.100)
8	11.31371
9	12.72792
10	14.14214
11	15.55635
12	16.97056 (≒17 ERROR 0.030)
13	18.38478
14	19.79899
15	21.2132
16	22.62742
17	24.04163
18	25.45584
19	26.87006
20	28.28427

FIG. 18

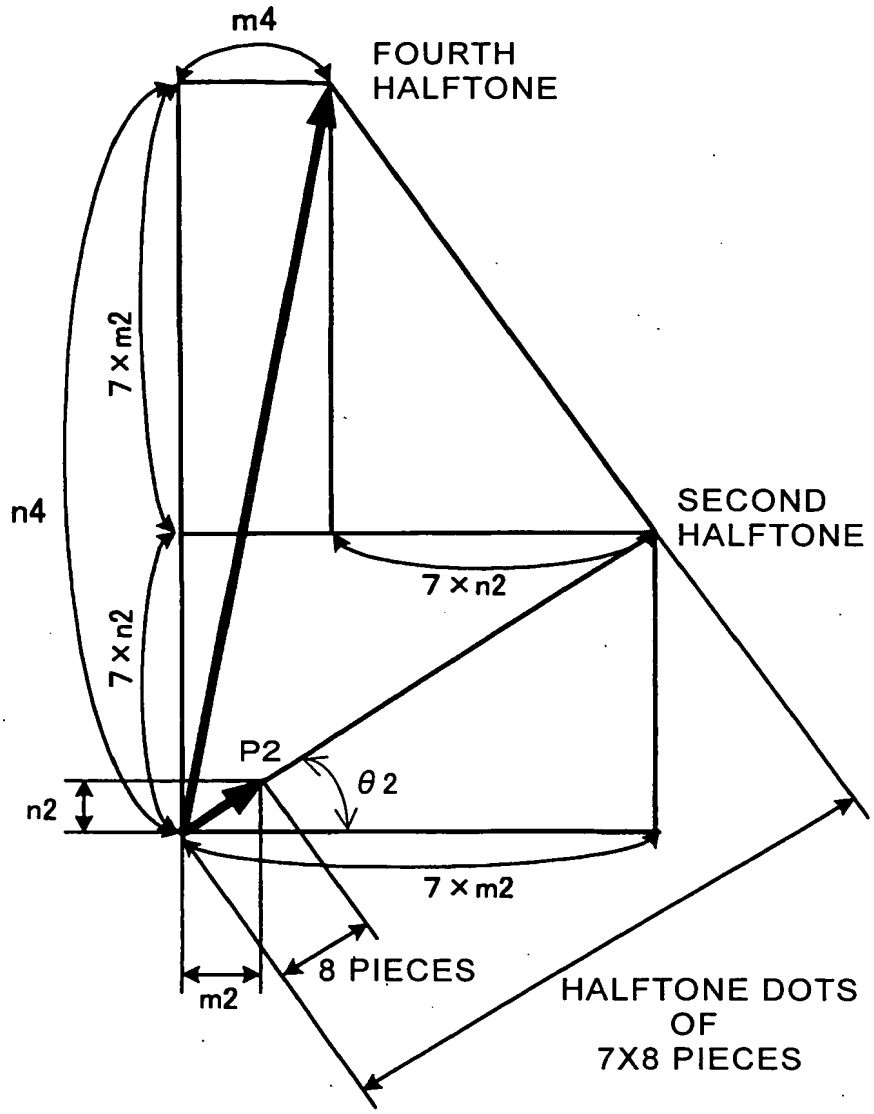
m4
FOURTH HALFTONE
7 × m2
n4
SECOND HALFTONE
7 × n2
7 × n2
P2
θ 2
n2
7 × m2
8 PIECES
m2
HALFTONE DOTS OF 7X8 PIECES

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FIG. 19

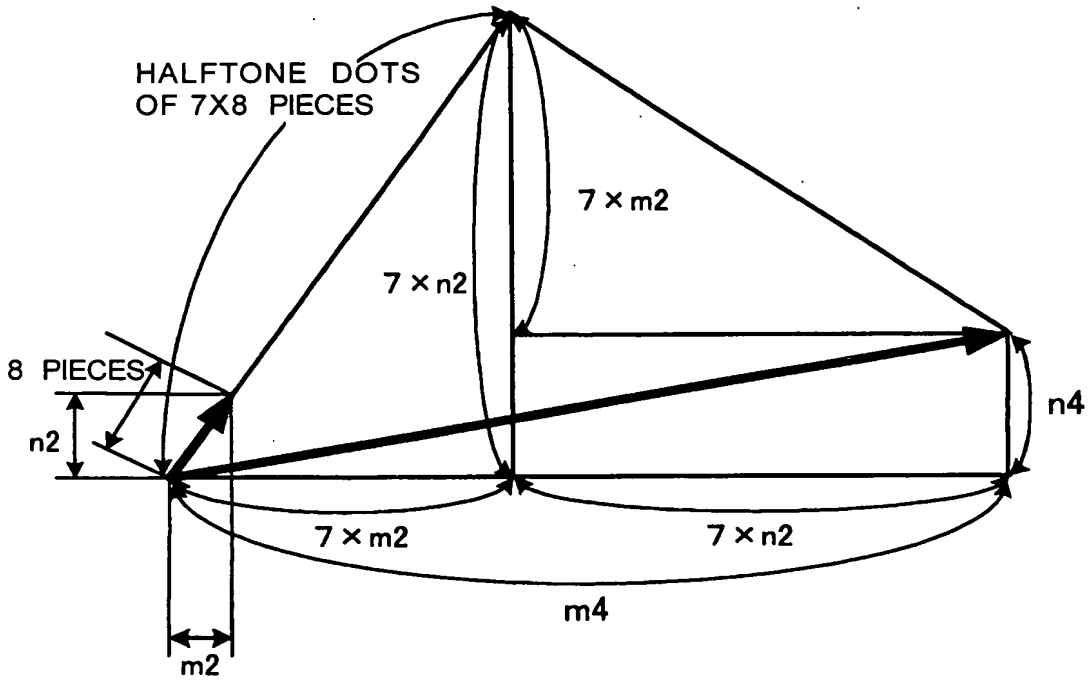
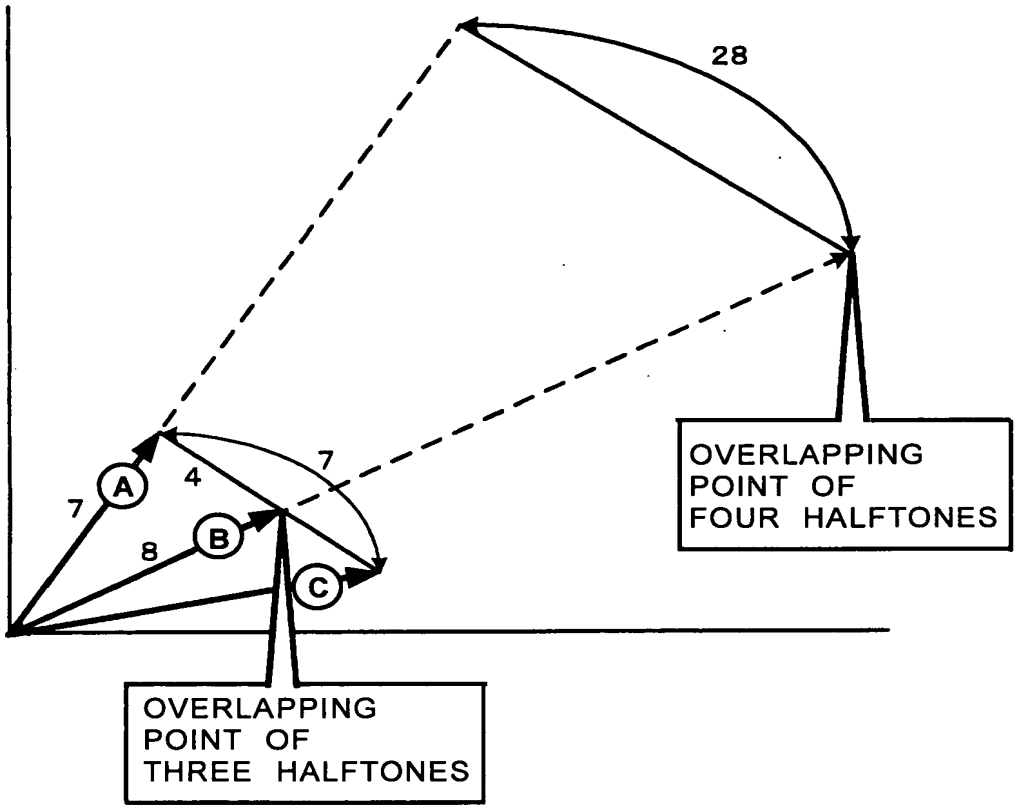


FIG. 20



Ⓐ : SECOND HALFTONE

Ⓑ : THIRD HALFTONE

Ⓒ : FOURTH HALFTONE

FIG. 21

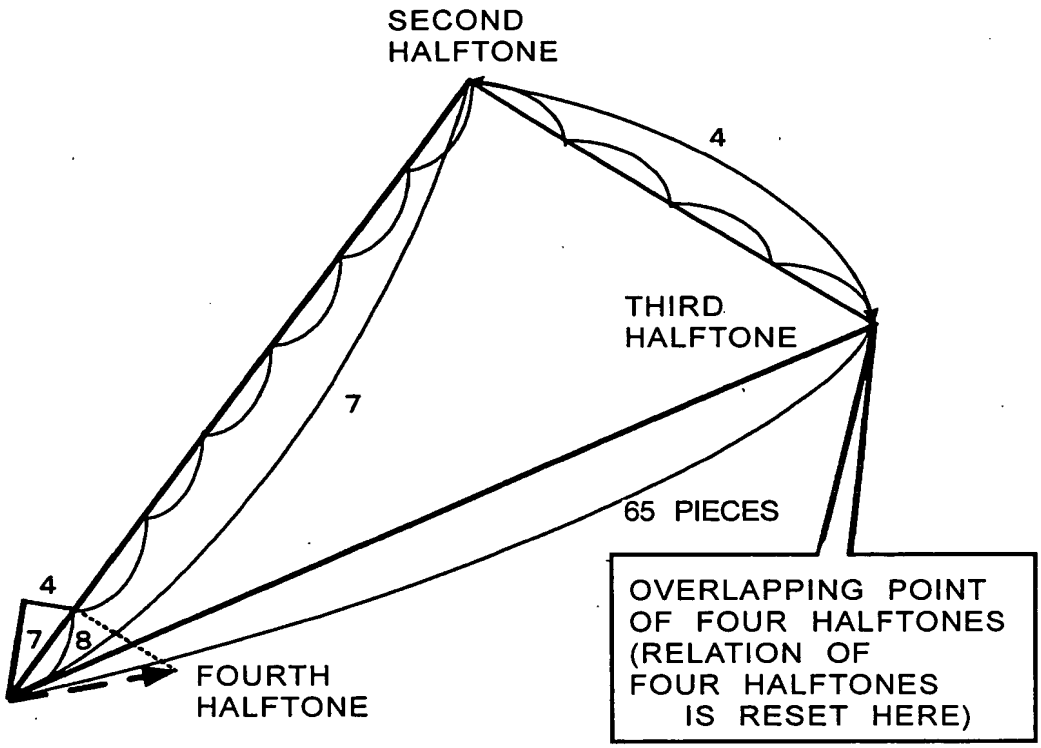

SECOND HALFTONE
4
THIRD HALFTONE
7
65 PIECES
4
7
8
FOURTH HALFTONE
OVERLAPPING POINT OF FOUR HALFTONES (RELATION OF FOUR HALFTONES IS RESET HERE)

FIG. 22(a)

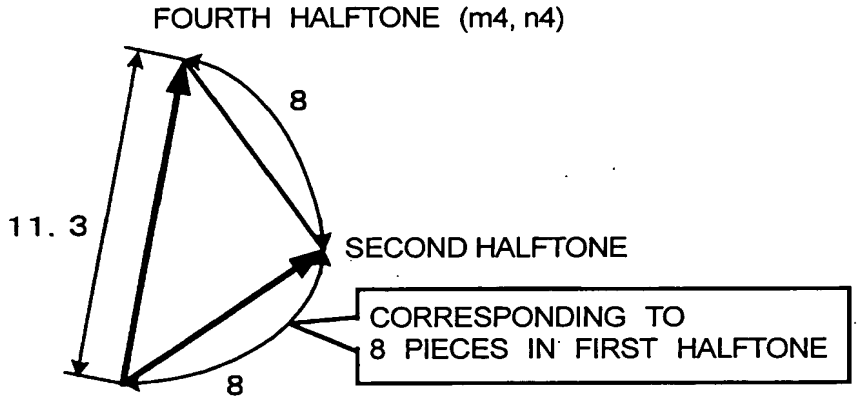


FIG. 22(b)

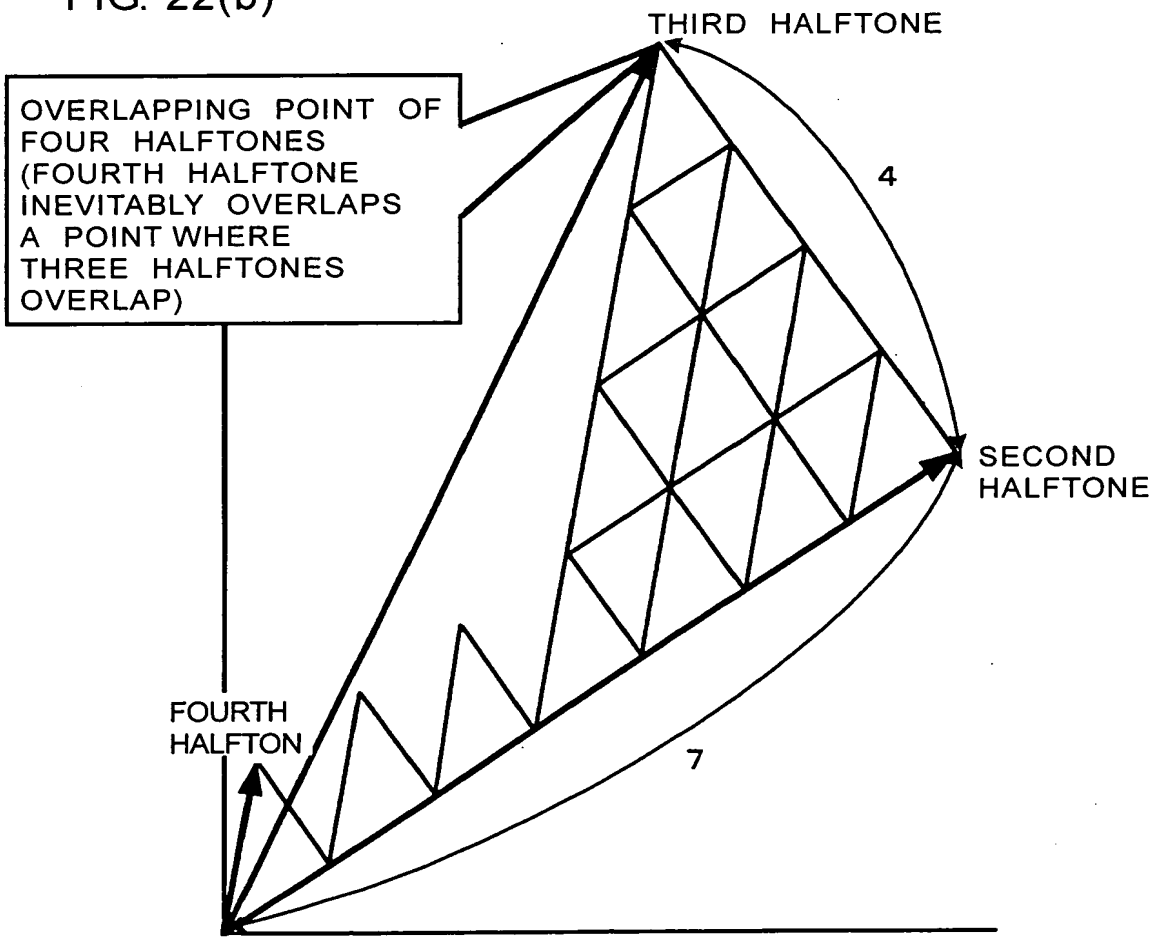


FIG. 23(a)

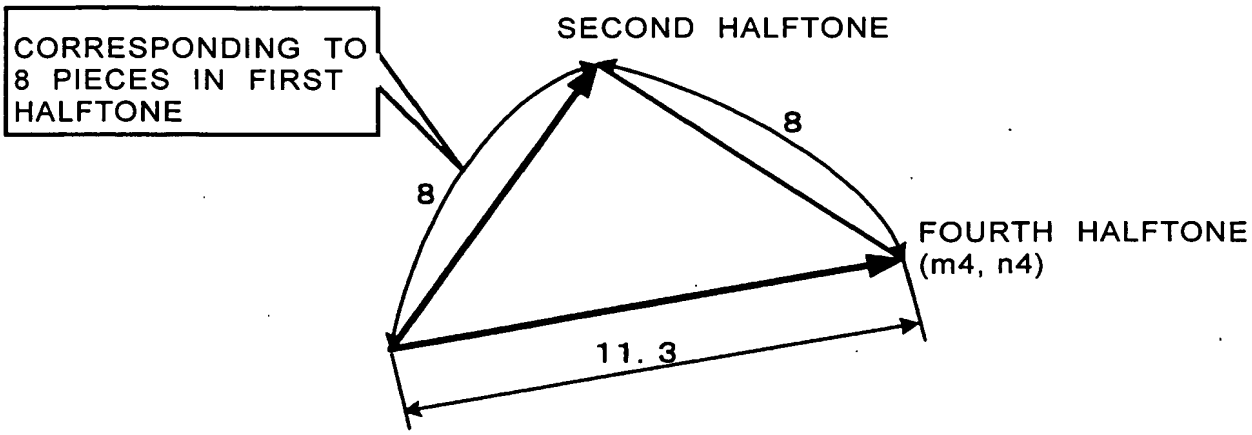


FIG. 23(b)

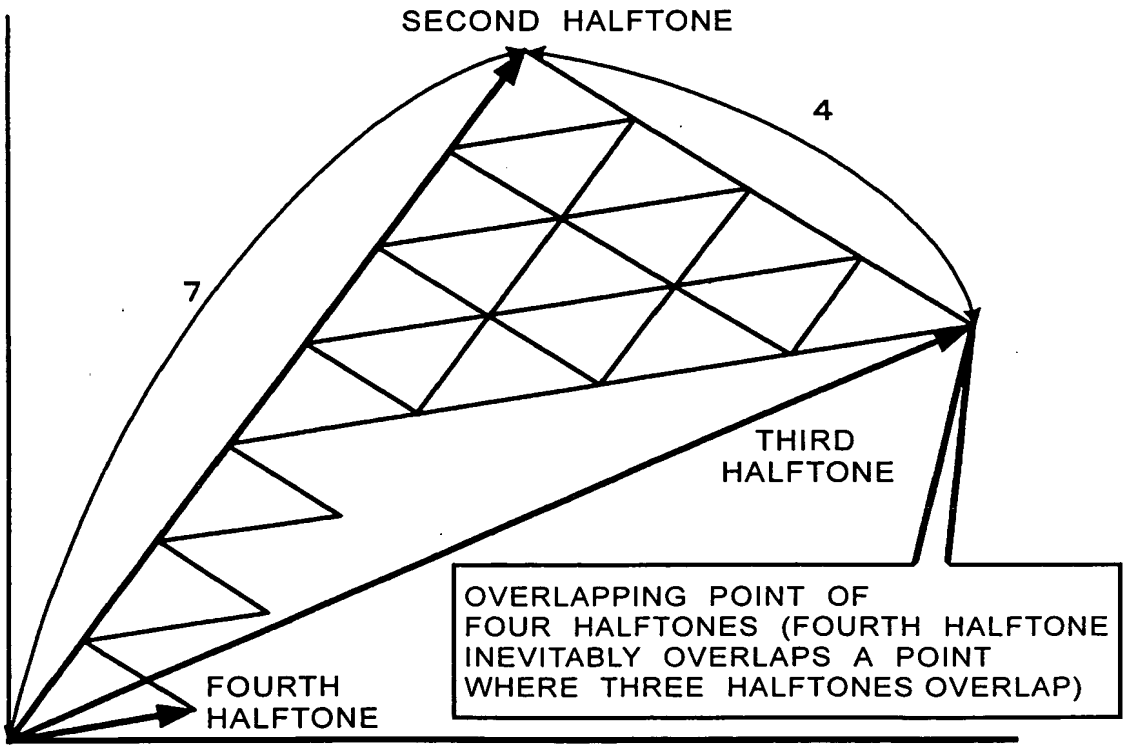


FIG. 24(a)

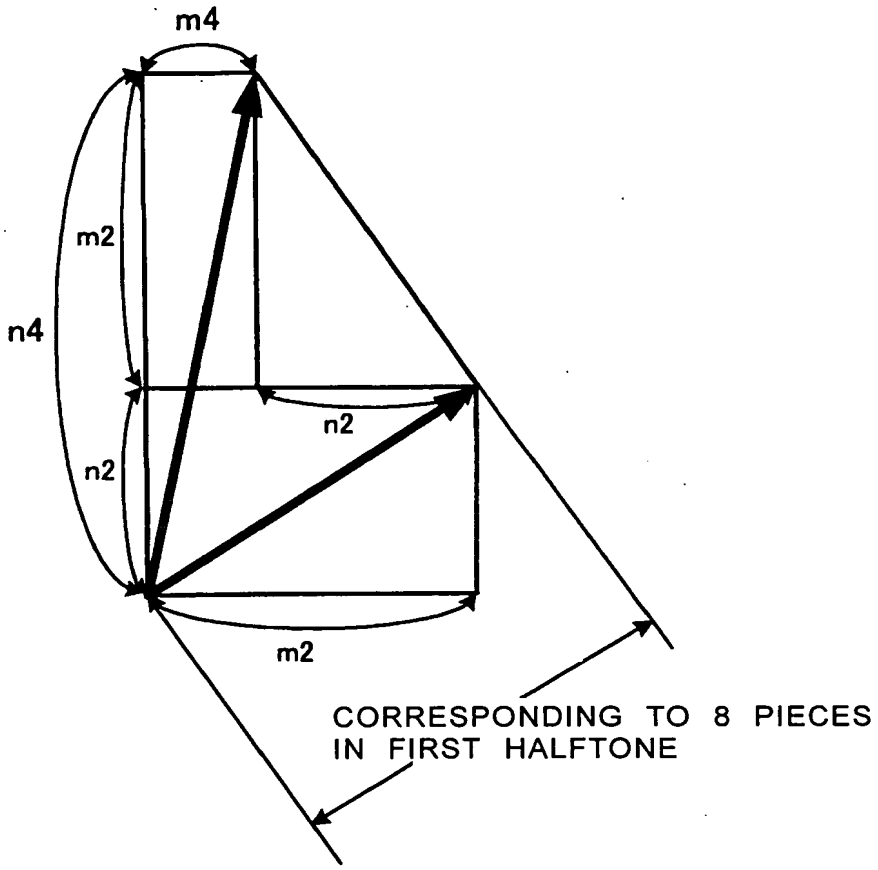


FIG. 24(b)

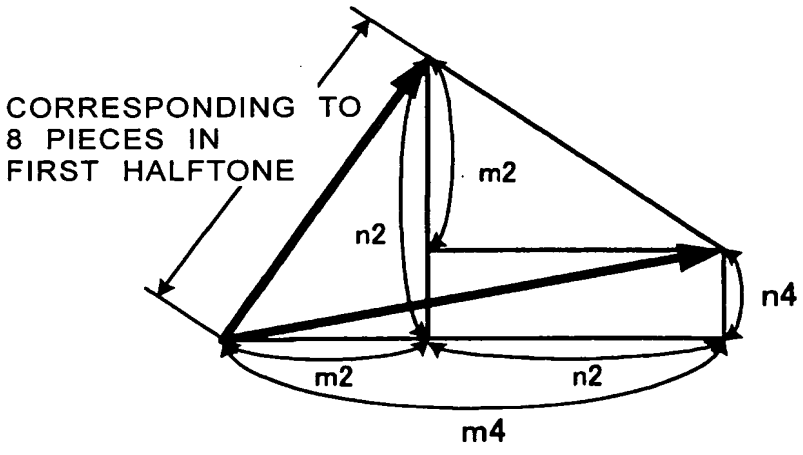


FIG. 25(a)

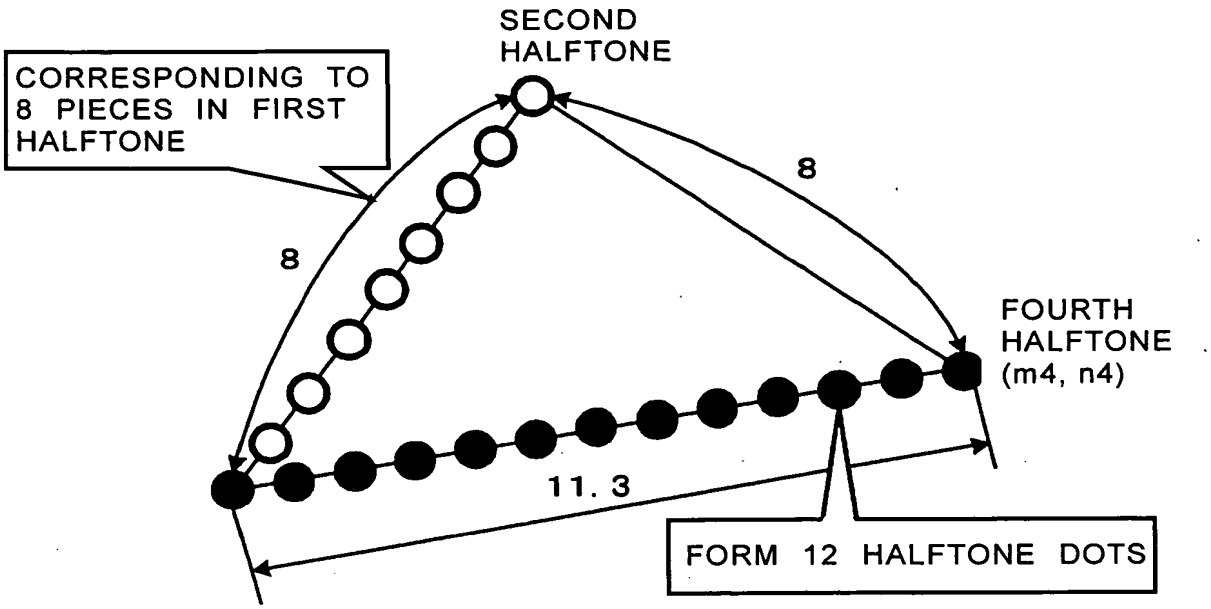


FIG. 25(b)

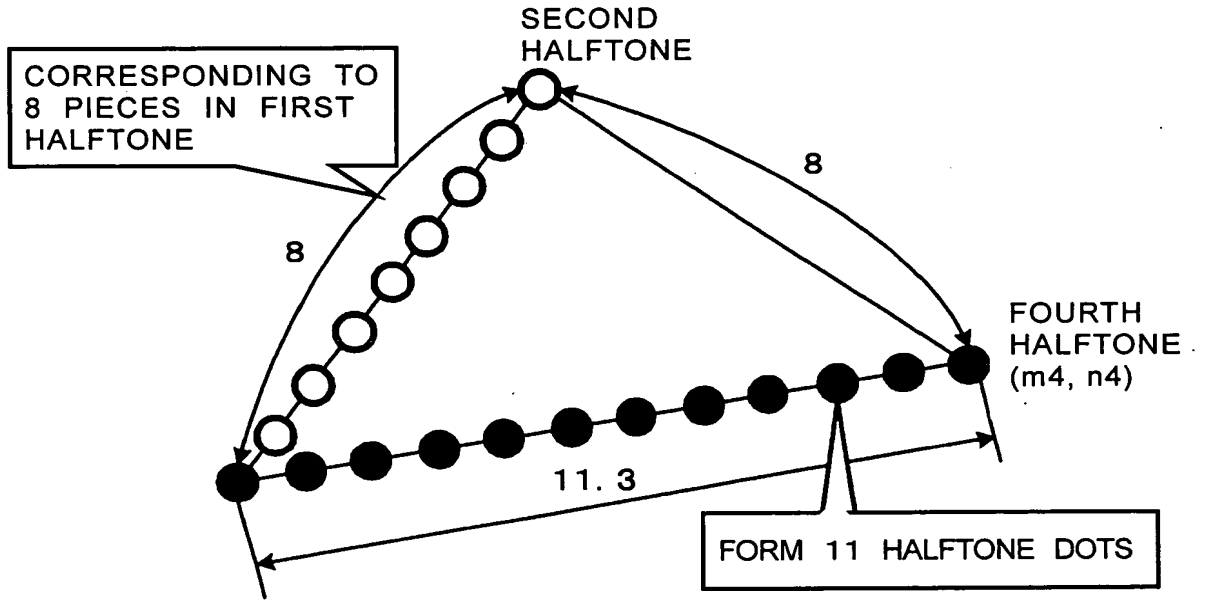


FIG. 26

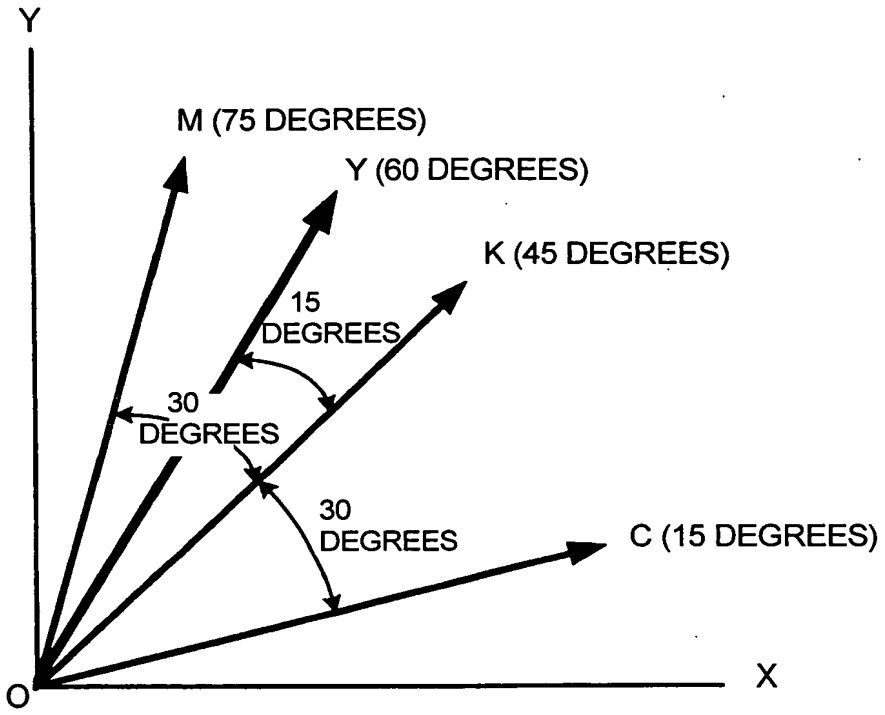

Y
M (75 DEGREES)
Y (60 DEGREES)
K (45 DEGREES)
15
DEGREES
30
DEGREES
30
DEGREES
C (15 DEGREES)
O
X

FIG. 27(a)

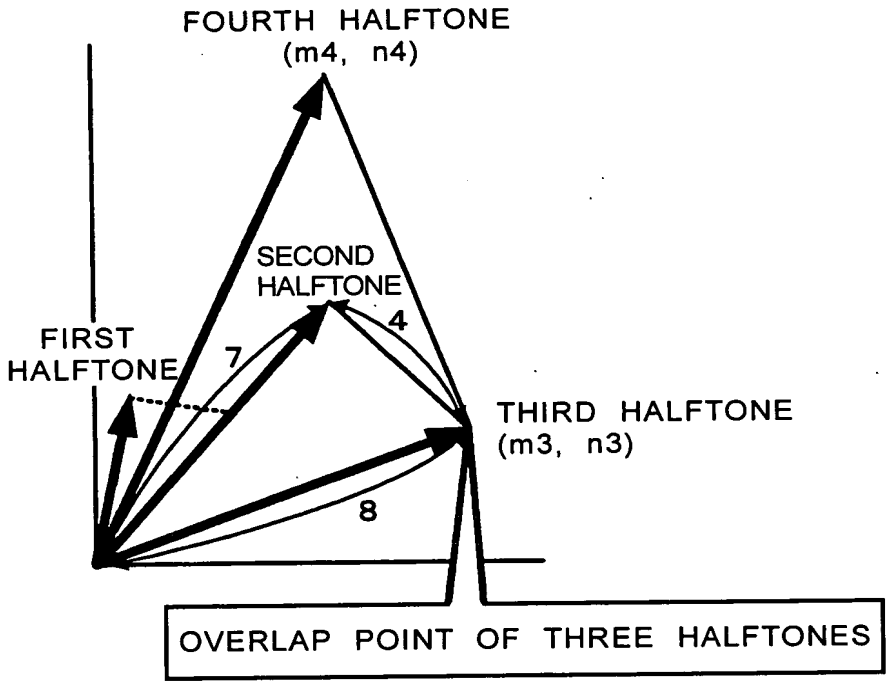


FIG. 27(b)

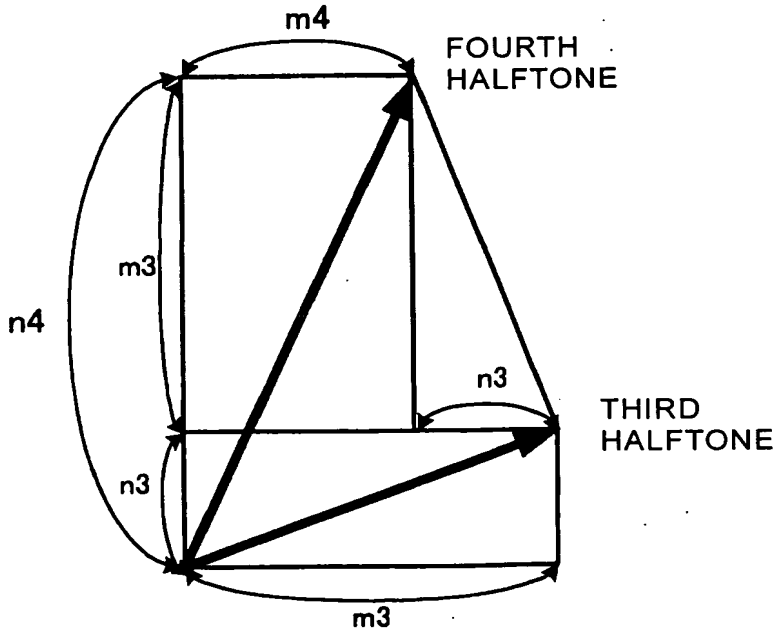


FIG. 28

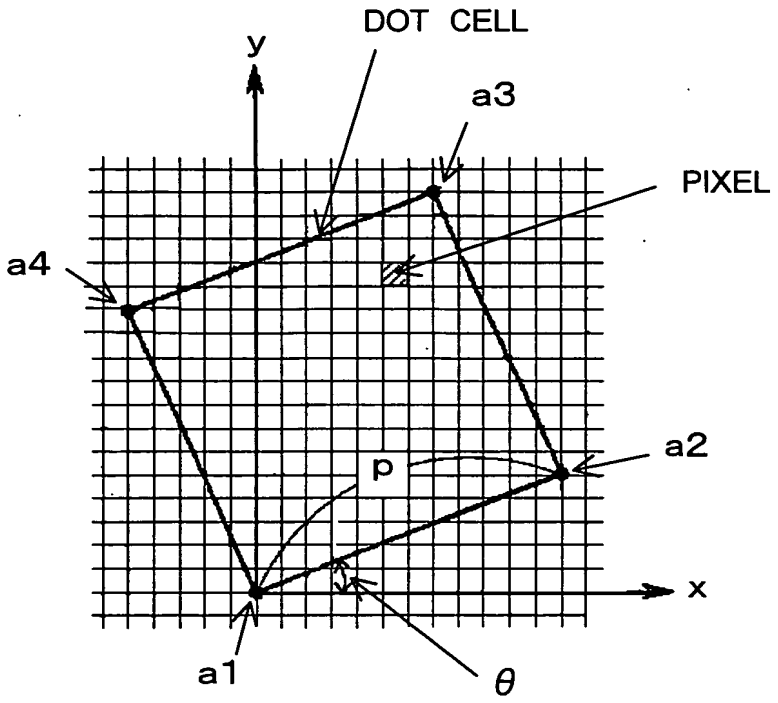

DOT CELL
y
a3
PIXEL
a4
a2
p
x
a1
θ

FIG. 29

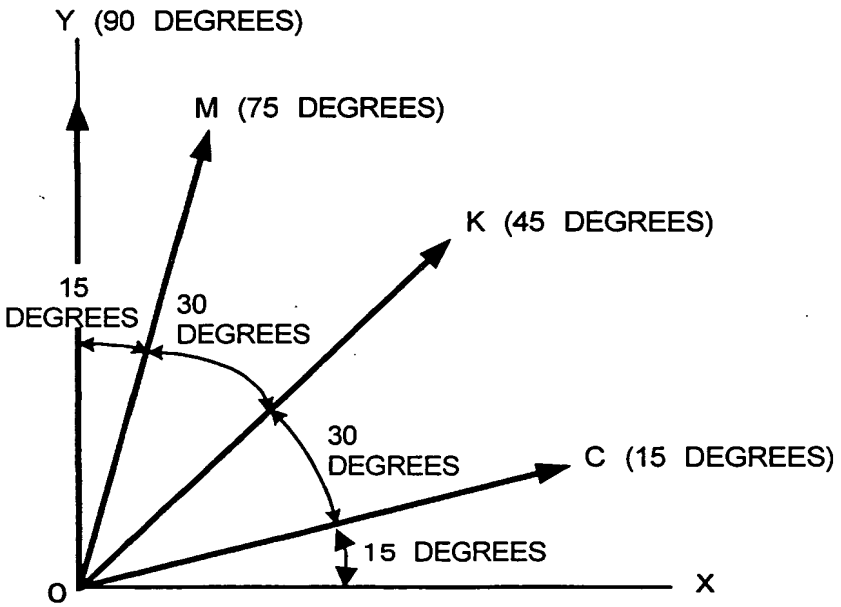

Y (90 DEGREES)
M (75 DEGREES)
K (45 DEGREES)
15
DEGREES
30
DEGREES
30
DEGREES
C (15 DEGREES)
15 DEGREES
O
X

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FIG. 30

SUPER CELL

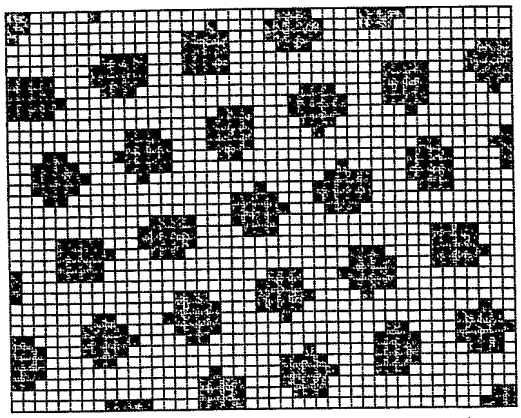


FIG. 31(A)

JOINT PORTION BETWEEN SUPER CELLS

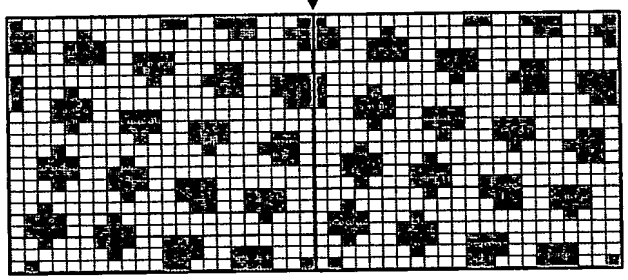
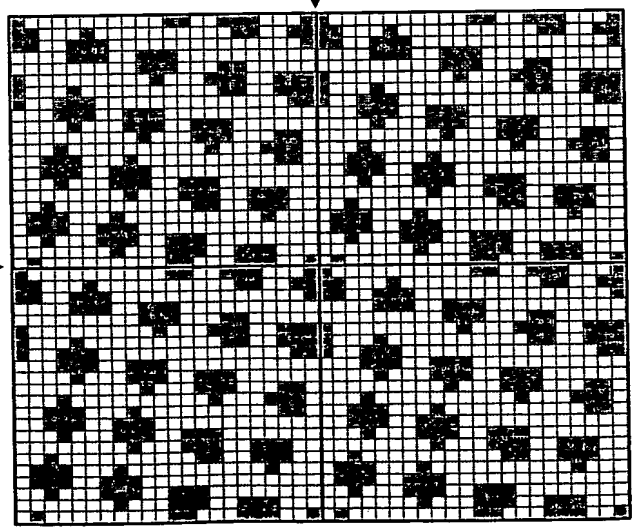


FIG. 31(B)

JOINT PORTION BETWEEN SUPER CELLS

JOINT PORTION BETWEEN SUPER CELLS



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INVENTORS: **Yasuhiko KISHIMOTO**
DOCKET NO.: **1391.1073**

FIG. 32